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PA - (TEIQ) TEIJIN KASEI LTD

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C08L-069/00 ; C09K-003/00

AB - JP2000143842 A polycarbonate resin molded article is obtained by mixing polycarbonate resin with (i) 0.01-0.30 g/m² of coloring agent comprising, 2 or more pigments or dyestuff and (ii) 0.12-1.2g/m² of phthalocyanine type near infra-red absorber. The optical transmittance of molded article is 20-80%, or 2% or less when cloudy. The shielding coefficient of molded article is 0.6 or less. An INDEPENDENT CLAIM is also included for transparent heat-ray blocking polycarbonate resin printing board. Preferred Coloring Agent: The coloring agent is carbon black.

- USE - Used for printed circuit boards (claimed), injection molded products and as window material, sunshine roof, arcade and carport of buildings. The molded article is also used for bodies of motor vehicle, electric train and aircraft.

- ADVANTAGE - The molded article is transparent, absorbs light ray of near infra-red region excellently, selectively and interrupts hot ray from solar light.

- EXAMPLE - (In weight parts) Polycarbonate resin (100) of average molecular weight 500 and viscosity 24 was blended with carbon black MIR-362 (0.075) Vynamon Green 2G-FN (0.0009), cyanine type green organic pigment (0.0019), anthraquinone type violet dyestuff Plast Violet 8840 (0.0009), quinoline type yellow dyestuff Plast Yellow 8010 (0.0005) and benzotriazol type ultraviolet absorber (0.27). The mixture was molded into a square board having 0.90g/m² of infra-red ray absorber and 0.05g/m² of pigment and dyestuff. The board was found to have spectral transmission of 37.8%, 0.1% or less when cloudy and shielding coefficient of 0.55.

IW - TRANSPARENT HEAT RAY BLOCK POLYCARBONATE RESIN ARTICLE BUILD MOTOR VEHICLE PREDEFINED PHYSICAL PROPERTIES OBTAIN MIX POLYCARBONATE RESIN AGENT INFRARED ABSORB

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NC - 001

OPD - 1998-09-10

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PAW - (TEIQ) TEIJIN KASEI LTD

TI - Transparent heat-ray blocking polycarbonate resin molded article for

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buildings, motor vehicles, has predefined physical properties and is obtained by mixing polycarbonate resin with coloring agent, infrared absorber